



Comparison of different sample types in Vitellogenin testing

For Research Use Only

	Blood	Homogenates	Epidermal Mucus
Invasive sampling	Yes	Yes	No
Destructive sampling	YES (In small fish)	Yes	No
Anaesthesia required	Yes	Yes	No*
Standardization of sampling method	No Different methods used also pending on fish	No Different methods of tissue preparation pending on fish and different methods of homogenization	Yes Standardized TECO method independent from fish
Risk Contamination with lymphatic fluid or other tissues	YES	YES	No
Sample preparation procedure	4 Steps 1. Blood in tube prefilled with stabilisator 2. Centrifugation 3. Transfer supernatant into clean tube 4. Deep freeze	6 Steps 1. Preparation of tissue 2. Weight 3. Homogenate in stabilizing buffer 4. Centrifuge 5. Transfer supernatant into clean tube 6. Deep freeze	2 Steps 1. Break swab tip into tube 2. Deep freeze
Sample preparation equipment	1. Devices to obtain blood 2. Tubes prefilled with stabilisator 3. Clean vials 4. Centrifuge	1. Knife to cut head and tail 2. Vials 3. Weight 4. Device to homogenate tissue 5. Centrifuge	1. Validated TECO Mucus Collection kit
Sample Stability	Freeze immediately after centrifugation	Freeze immediately after centrifugation	Freeze immediately after sampling
Sample Stability before testing	Very weak: General recommendation: Thaw samples on ice TECO ELISAs: Thaw samples 15 min at RT		Moderate: Extracted samples stable up to 4 hours at RT
Concentration level	µg/ml	µg/ml	ng/ml

* check with national regulatory agencies

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